



SEQUENCE LISTING

#5

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GUSYATINER, MIKHAIL

KOZLOV, YURY

<120> MUTANT ILVH GENE AND METHOD FOR PRODUCING L-VALINE

<130> 202048US0

<140> 09/761,782

<141> 2001-01-18

<150> RU 2000101678

<151> 2000-01-26

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<170> PatentIn version 3.1

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tcc cgc gtg att ggc ctt ttt tcc cag cgt ggc tac aac att gaa agc 96  
Ser Arg Val Ile Gly Leu Phe Ser Gln Arg Gly Tyr Asn Ile Glu Ser  
20 25 30

ctg acc gtt gcg cca acc gac gat ccg aca tta tcg cgt atg acc atc 144  
Leu Thr Val Ala Pro Thr Asp Asp Pro Thr Leu Ser Arg Met Thr Ile  
35 40 45

cag acc gtg ggc gat gaa aaa gta ctt gag cag atc gaa aag caa tta 192  
Gln Thr Val Gly Asp Glu Lys Val Leu Glu Gln Ile Glu Lys Gln Leu  
50 55 60

cac aaa ctg gtc gat gtc ttg cgc gtg agt gag ttg ggg cag ggc gcg 240  
His Lys Leu Val Asp Val Leu Arg Val Ser Glu Leu Gly Gln Gly Ala  
65 70 75 80

cat gtt gag cgg gaa atc atg ctg gtg aaa att cag gcc agc ggt tac 288  
His Val Glu Arg Glu Ile Met Leu Val Lys Ile Gln Ala Ser Gly Tyr  
85 90 95

ggg cgt gac gaa gtg aaa cgt aat acg gaa ata ttc cgt ggg caa att 336  
Gly Arg Asp Glu Val Lys Arg Asn Thr Glu Ile Phe Arg Gly Gln Ile  
100 105 110

atc gat gtc aca ccc tcg ctt tat acc gtt caa tta gca ggc acc agc 384  
Ile Asp Val Thr Pro Ser Leu Tyr Thr Val Gln Leu Ala Gly Thr Ser  
115 120 125

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 Gly Lys Leu Ser Ala Phe Leu Ala Ser Ile Arg Asp Val Ala Lys Ile  
 130 135 140

gtg gag gtt gct cgc tct ggt gtg gtc gga ctt tcg cgc ggc gat aaa 480  
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Leu Thr Val Ala Pro Thr Asp Asp Pro Thr Leu Ser Arg Met Thr Ile  
 35 40 45

Gln Thr Val Gly Asp Glu Lys Val Leu Glu Gln Ile Glu Lys Gln Leu  
 50 55 60

His Lys Leu Val Asp Val Leu Arg Val Ser Glu Leu Gly Gln Gly Ala  
 65 70 75 80

His Val Glu Arg Glu Ile Met Leu Val Lys Ile Gln Ala Ser Gly Tyr  
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Gly Arg Asp Glu Val Lys Arg Asn Thr Glu Ile Phe Arg Gly Gln Ile  
 100 105 110

Ile Asp Val Thr Pro Ser Leu Tyr Thr Val Gln Leu Ala Gly Thr Ser  
 115 120 125

Gly Lys Leu Ser Ala Phe Leu Ala Ser Ile Arg Asp Val Ala Lys Ile  
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Ile Met Arg

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